


STATE OF NEW HAMPSHIRE
INTER-DEPARTMENT COMMUNICATION


FROM: Matt Urban
Wetlands Program Manager

DATE: October 6, 2016

AT (OFFICE): Department of
Transportation

SUBJECT Dredge & Fill Application
Salem, 16471

Bureau of
Environment

TO Gino Infascelli, Public Works Permitting Officer
New Hampshire Wetlands Bureau
29 Hazen Drive, P.O. Box 95
Concord, NH 03302-0095

Forwarded herewith is the application package prepared by Gove Environmental Services for NH DOT Highway Maintenance District 5 for the subject minor impact project. This project is classified as minor per Env-Wt 303.03(h). This project is located on 54 Shadow Lake Road in Salem NH. The NHDOT's existing maintenance facility is located at this address. The Department is proposing to demolish and reconstruct a new maintenance facility along with new salt storage structures and additional water quality treatment areas on the property.

This project was reviewed at the March 16 2016 Natural Resource Agency Coordination Meeting. Minutes from that meeting are available within this application package as well as on the Departments website.

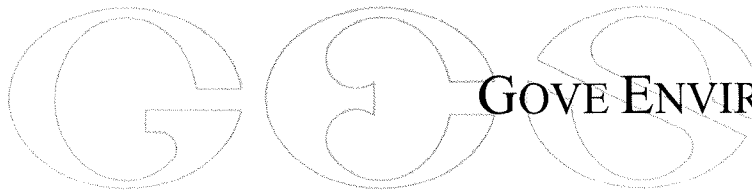
This project has no stream impacts, does not exceed the 10,000 sq. ft. threshold for impacts and does not have any direct prime wetland impacts and therefore no mitigation is required or proposed.

A payment voucher has been processed for this application (Voucher #458542) in the amount of \$991.60.

The lead people to contact for this project are Gary Clifford, District 5 (485-9526 or gclifford@dot.state.nh.us) or Matt Urban, Wetlands Program Manager, Bureau of Environment (271-3226 or murban@dot.state.nh.us).

If and when this application meets with the approval of the Bureau, please send the permit directly to Matt Urban, Wetlands Program Manager, Bureau of Environment.

MRU:mru
Enclosures
cc:
BOE original
Town of Salem (4 copies via certified mail)
Edna Feighner, NHDHR (RPR-7652)
Carol Henderson, NH Fish & Game (Via Electronic Notification)
Maria Tur, US Fish & Wildlife (Via Electronic Notification)
Mark Kern, US Environmental Protection Agency (Via Electronic Notification)
Michael Hicks, US Army Corp of Engineers (Via Electronic Notification)
Kevin Nyhan, BOE (Via Electronic Notification)
Gary Clifford, Dist 5 (Via Electronic Notification)
Roger Dionne, (Via Electronic Notification)



GOVE ENVIRONMENTAL SERVICES, INC.
AGENT

NH DES WETLANDS BUREAU
MINOR IMPACT
DREDGE & FILL APPLICATION

NH DOT District 5 Facility
54 Shadow Lake Road
Salem, New Hampshire
August 2016

Prepared By

Gove Environmental Services, Inc.
8 Continental Dr Bldg 2 Unit H, Exeter, NH 03833-7526
Ph (603) 778 0644 / *Fax* (603) 778 0654
info@gesinc.biz / www.gesinc.biz

GES Project # 2015161
NH DOT #16471



WETLANDS PERMIT APPLICATION

Water Division/ Wetlands Bureau

Land Resources Management

Check the status of your application: www.des.nh.gov/onestop



RSA/Rule: RSA 482-A/ Env-Wt 100-900

Administrative Use Only	Administrative Use Only	Administrative Use Only	File No.
			Check No.
			Amount
			Impact

1. REVIEW TIME:

Indicate your Review Time below. Refer to Guidance Document A for instructions.

☒ Standard Review (Minimum, Minor or Major Impact)

☐ Expedited Review (Minimum Impact only)

2. PROJECT LOCATION:

Separate applications must be filed with each municipality that jurisdictional impacts will occur in.

ADDRESS: **Shadow Lake Road**

TOWN/CITY: **Salem**

TAX MAP: **13**

BLOCK:

LOT: **6493**

UNIT:

USGS TOPO MAP WATERBODY NAME:

☒ NA

STREAM WATERSHED SIZE:

☒ NA

LOCATION COORDINATES (If known):

☐ Latitude/Longitude ☐ UTM ☐ State Plane

3. PROJECT DESCRIPTION:

Provide a brief description of the project outlining the scope of work. Attach additional sheets as needed to provide a detailed explanation of your project. DO NOT reply "See Attached" in the space provided below.

The proposed project is for the redevelopment of the existing storage facility, through new buildings and site work for access of vehicles. Total impacts are 4,958 square feet from five impacts. Impact Area A 2,133 sf, Impact Area B 356 sf, Impact Area C 619 sf, Impact Area D 389 sf, Impact Area E 1,461 sf.

4. SHORELINE FRONTAGE

☒ NA This lot has no shoreline frontage.

SHORELINE FRONTAGE:

Shoreline frontage is calculated by determining the average of the distances of the actual natural navigable shoreline frontage and a straight line drawn between the property lines, both of which are measured at the normal high water line.

5. RELATED PERMITS, ENFORCEMENT, EMERGENCY AUTHORIZATION, SHORELAND, ALTERATION OF TERRAIN, ETC...

6. NATURAL HERITAGE BUREAU & DESIGNATED RIVERS:

See the Instructions & Required Attachments document for instructions to complete a & b below.

a. Natural Heritage Bureau File ID: NHB **15** - **3164**.

b. ☐ Designated River the project is in ¼ miles of _____; and
date a copy of the application was sent to the Local River Management Advisory Committee: Month: ____ Day: ____ Year: ____

☒ NA

shoreland@des.nh.gov or (603) 271-2147

NHDES Wetlands Bureau, 29 Hazen Drive, PO Box 95, Concord, NH 03302-0095

www.des.nh.gov

7. APPLICANT INFORMATION (Desired permit holder)			
LAST NAME, FIRST NAME, M.I.: CLifford, Gary			
TRUST / COMPANY NAME: NH DOT District 5		MAILING ADDRESS: 16 East Point Drive	
TOWN/CITY: Bedford		STATE: NH	ZIP CODE: 03110
EMAIL or FAX: gclifford@dot.state.nh.us		PHONE: 603-666-3336	
ELECTRONIC COMMUNICATION: By initialing here:  , I hereby authorize NHDES to communicate all matters relative to this application electronically			
8. PROPERTY OWNER INFORMATION (If different than applicant)			
LAST NAME, FIRST NAME, M.I.: Same			
TRUST / COMPANY NAME:		MAILING ADDRESS:	
TOWN/CITY:		STATE:	ZIP CODE:
EMAIL or FAX:		PHONE:	
ELECTRONIC COMMUNICATION: By initialing here _____, I hereby authorize NHDES to communicate all matters relative to this application electronically			
9. AUTHORIZED AGENT INFORMATION			
LAST NAME, FIRST NAME, M.I.: Hurley, Luke		COMPANY NAME: GES, Inc.	
MAILING ADDRESS: 8 continental Drive, Unit H			
TOWN/CITY: Exeter, NH		STATE: NH	ZIP CODE: 03833
EMAIL or FAX: lhurley@gesinc.biz		PHONE: 603-770-5114	
ELECTRONIC COMMUNICATION: By initialing here LH , I hereby authorize NHDES to communicate all matters relative to this application electronically			
10. PROPERTY OWNER SIGNATURE:			
See the Instructions & Required Attachments document for clarification of the below statements			
By signing the application, I am certifying that:			
<ol style="list-style-type: none"> 1. I authorize the applicant and/or agent indicated on this form to act in my behalf in the processing of this application, and to furnish upon request, supplemental information in support of this permit application. 2. I have reviewed and submitted information & attachments outlined in the Instructions and Required Attachment document. 3. All abutters have been identified in accordance with RSA 482-A:3, I and Env-Wt 100-900. 4. I have read and provided the required information outlined in Env-Wt 302.04 for the applicable project type. 5. I have read and understand Env-Wt 302.03 and have chosen the least impacting alternative. 6. Any structure that I am proposing to repair/replace was either previously permitted by the Wetlands Bureau or would be considered grandfathered per Env-Wt 101.47. 7. I have submitted a Request for Project Review (RPR) Form (www.nh.gov/nhdhr/review) to the NH State Historic Preservation Officer (SHPO) at the NH Division of Historical Resources to identify the presence of historical/ archeological resources while coordinating with the lead federal agency for NHPA 106 compliance. 8. I authorize NHDES and the municipal conservation commission to inspect the site of the proposed project. 9. I have reviewed the information being submitted and that to the best of my knowledge the information is true and accurate. 10. I understand that the willful submission of falsified or misrepresented information to the New Hampshire Department of Environmental Services is a criminal act, which may result in legal action. 11. I am aware that the work I am proposing may require additional state, local or federal permits which I am responsible for obtaining. 12. The mailing addresses I have provided are up to date and appropriate for receipt of NHDES correspondence. NHDES will not 			
 for GARY CLIFFORD Property Owner Signature		MATT URBAN Print name legibly	10/5/16 Date

MUNICIPAL SIGNATURES

11. CONSERVATION COMMISSION SIGNATURE

The signature below certifies that the municipal conservation commission has reviewed this application, and:

1. Waives its right to intervene per RSA 482-A:11;
2. Believes that the application and submitted plans accurately represent the proposed project; and
3. Has no objection to permitting the proposed work.

	Print name legibly	Date
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DIRECTIONS FOR CONSERVATION COMMISSION

1. Expedited review **ONLY** requires that the conservation commission's signature is obtained in the space above.
2. Expedited review requires the Conservation Commission signature be obtained **prior** to the submittal of the original application to the Town/City Clerk for signature.
3. The Conservation Commission may refuse to sign. If the Conservation Commission does not sign this statement for any reason, the application is not eligible for expedited review and the application will reviewed in the standard review time frame.

12. TOWN / CITY CLERK SIGNATURE

As required by Chapter 482-A:3 (amended 2014), I hereby certify that the applicant has filed four application forms, four detailed plans, and four USGS location maps with the town/city indicated below.

	Print name legibly	Town/City	Date
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DIRECTIONS FOR TOWN/CITY CLERK:

Per RSA 482-A:3,I

1. For applications where "Expedited Review" is checked on page 1, if the Conservation Commission signature is not present, NHDES will accept the permit application, but it will **NOT** receive the expedited review time.
2. **IMMEDIATELY** sign the original application form and four copies in the signature space provided above;
3. Return the signed original application form and attachments to the applicant so that the applicant may submit the application form and attachments to NHDES by mail or hand delivery.
4. **IMMEDIATELY** distribute a copy of the application with one complete set of attachments to each of the following bodies: the municipal Conservation Commission, the local governing body (Board of Selectmen or Town/City Council), and the Planning Board; and
5. Retain one copy of the application form and one complete set of attachments and make them reasonably accessible for public review.

DIRECTIONS FOR APPLICANT:

1. Submit the single, original permit application form bearing the signature of the Town/ City Clerk, additional materials, and the application fee to NHDES by mail or hand delivery.

13. IMPACT AREA:

For each jurisdictional area that will be/has been impacted, provide square feet and, if applicable, linear feet of impact

Permanent: impacts that will remain after the project is complete.

Temporary: impacts not intended to remain (and will be restored to pre-construction conditions) after the project is complete.

JURISDICTIONAL AREA	PERMANENT Sq. Ft. / Lin. Ft.	TEMPORARY Sq. Ft. / Lin. Ft.
Forested wetland	<input type="checkbox"/> ATF	<input type="checkbox"/> ATF
Scrub-shrub wetland	4,958 <input type="checkbox"/> ATF	<input type="checkbox"/> ATF
Emergent wetland	<input type="checkbox"/> ATF	<input type="checkbox"/> ATF
Wet meadow	<input type="checkbox"/> ATF	<input type="checkbox"/> ATF
Intermittent stream	<input type="checkbox"/> ATF	<input type="checkbox"/> ATF
Perennial Stream / River	/ <input type="checkbox"/> ATF	/ <input type="checkbox"/> ATF
Lake / Pond	/ <input type="checkbox"/> ATF	/ <input type="checkbox"/> ATF
Bank - Intermittent stream	/ <input type="checkbox"/> ATF	/ <input type="checkbox"/> ATF
Bank - Perennial stream / River	/ <input type="checkbox"/> ATF	/ <input type="checkbox"/> ATF
Bank - Lake / Pond	/ <input type="checkbox"/> ATF	/ <input type="checkbox"/> ATF
Tidal water	/ <input type="checkbox"/> ATF	/ <input type="checkbox"/> ATF
Salt marsh	<input type="checkbox"/> ATF	<input type="checkbox"/> ATF
Sand dune	<input type="checkbox"/> ATF	<input type="checkbox"/> ATF
Prime wetland	<input type="checkbox"/> ATF	<input type="checkbox"/> ATF
Prime wetland buffer	<input type="checkbox"/> ATF	<input type="checkbox"/> ATF
Undeveloped Tidal Buffer Zone (TBZ)	<input type="checkbox"/> ATF	<input type="checkbox"/> ATF
Previously-developed upland in TBZ	<input type="checkbox"/> ATF	<input type="checkbox"/> ATF
Docking - Lake / Pond	<input type="checkbox"/> ATF	<input type="checkbox"/> ATF
Docking - River	<input type="checkbox"/> ATF	<input type="checkbox"/> ATF
Docking - Tidal Water	<input type="checkbox"/> ATF	<input type="checkbox"/> ATF
TOTAL	4,958 /	/

14. APPLICATION FEE: See the Instructions & Required Attachments document for further instruction

☐ Minimum Impact Fee: Flat fee of \$ 200

☐ Minor or Major Impact Fee: Calculate using the below table below

Permanent and Temporary (non-docking) 4,958 sq. ft. X \$0.20 = \$ 991.60

Temporary (seasonal) docking structure: _____ sq. ft. X \$1.00 = \$

Permanent docking structure: _____ sq. ft. X \$2.00 = \$

Projects proposing shoreline structures (including docks) add \$200 = \$

Total = \$ 991.60

The Application Fee is the above calculated Total or \$200, whichever is greater = \$ 991.60

shoreland@des.nh.gov or (603) 271-2147

NHDES Wetlands Bureau, 29 Hazen Drive, PO Box 95, Concord, NH 03302-0095

www.des.nh.gov

WETLANDS PERMIT APPLICATION – ATTACHMENT A MINOR AND MAJOR - 20 QUESTIONS

Water Division/ Wetlands Bureau/ Land Resources Management
Check the Status of your application: www.des.nh.gov/onestop



RSA/ Rule: RSA 482-A, Env-Wt 100-900

Env-Wt 302.04 Requirements for Application Evaluation - For any major or minor project, the applicant shall demonstrate by plan and example that the following factors have been considered in the project's design in assessing the impact of the proposed project to areas and environments under the department's jurisdiction. Respond with statements demonstrating:

1. The need for the proposed impact.

Impacts are needed to redevelop the existing site, which has been in existence since the 1960's, to a more current facility.

2. That the alternative proposed by the applicant is the one with the least impact to wetlands or surface waters on site.

Under the current design proposal, this is the least impacting alternative. Several possible design locations throughout Salem were evaluated prior to selecting this location. The Department had previously selected a different location to build the new maintenance facility. However, the Town had objections to that location and encouraged the DOT to reconstruct at the location of the existing facility. Under the current design proposal, this is the least impacting alternative. Several Layouts were evaluated and steps to reduce wetland impacts and provide water quality treatment were taken. The Department was able to completely avoid any direct impacts to the prime wetland. The impacts are minimized as best possible to avoid direct prime wetland impact, while maximizing the use and layout of the site. Several Layouts were evaluated. Steps were also taken to incorporate water quality treatment basins, requiring adjustments to avoid being located in the wetlands.

3. The type and classification of the wetlands involved.

PSS/FO1E, Palustrine, Scrub-shurb/forested Seasonally Saturated

4. The relationship of the proposed wetlands to be impacted relative to nearby wetlands and surface waters.

These wetlands receive runoff from the surrounding uplands, as well as runoff from shadow lake road and the parking area for the town forest. The site is adjacent to Salem Prime Wetland 12 and Hitty Titty Brook.

5. The rarity of the wetland, surface water, sand dunes, or tidal buffer zone area.

The wetlands to be impacted are not rare in NH

6. The surface area of the wetlands that will be impacted.

4,958 square feet from five impacts. Impact Area A 2,133 sf, Impact Area B 356 sf, Impact Area C 619 sf. Impact Area D 389 sf, Impact Area E 1,461 sf.

7. The impact on plants, fish and wildlife including, but not limited to:
- a. Rare, special concern species;
 - b. State and federally listed threatened and endangered species;
 - c. Species at the extremities of their ranges;
 - d. Migratory fish and wildlife;
 - e. Exemplary natural communities identified by the DRED-NHB; and
 - f. Vernal pools.

- a) No rare or special concern species were identified within the proposed project area via NHB.
- b) There were no State or Federally listed threatened or endangered species identified within the project limits via NHB. The USF&WS IPaC search identified Northern Long-eared bat. This project will require minimal tree clearing. Several species of bird were noted, many of them shoreland or water dependant species. No proposed impacts to any species noted are expected based on the time of year the work is to begin.
- c) There are no species known to be at the extremities of their ranges located in Hitty Titty Brook or the surrounding area.
- d) The proposed work will not impact migratory fish and/or wildlife. No specific migratory species were identified in the NHB or IPAC results.
- e) The Department has coordinated with DRED and the results of the NHB review revealed no records in this area.
- f) There were no vernal pools identified and/or delineated in the project area.

8. The impact of the proposed project on public commerce, navigation and recreation.

No benefit or detriment.

9. The extent to which a project interferes with the aesthetic interests of the general public. For example, where an applicant proposes the construction of a retaining wall on the bank of a lake, the applicant shall be required to indicate the type of material to be used and the effect of the construction of the wall on the view of other users of the lake.

No impacts to the above will occur. This development will be in keeping with the surrounding development of the area and as is currently on the site.

10. The extent to which a project interferes with or obstructs public rights of passage or access. For example, where the applicant proposes to construct a dock in a narrow channel, the applicant shall be required to document the extent to which the dock would block or interfere with the passage through this area.

No obstruction of the above will occur. This site is the parking area for the Town Forest. Impacts will be temporary during construction.

11. The impact upon abutting owners pursuant to RSA 482-A:11, II. For example, if an applicant is proposing to rip-rap a stream, the applicant shall be required to document the effect of such work on upstream and downstream abutting properties.

No abutters are to be impacted from this project.

12. The benefit of a project to the health, safety, and well being of the general public.

No known benefit or detriment.

13. The impact of a proposed project on quantity or quality of surface and ground water. For example, where an applicant proposes to fill wetlands the applicant shall be required to document the impact of the proposed fill on the amount of drainage entering the site versus the amount of drainage exiting the site and the difference in the quality of water entering and exiting the site.

No impact to the quantity or quality of ground water is proposed. The site will have improved runoff prevention and treatment through the use of treatment ponds and additional grassed areas in places where there is now existing gravel.

14. The potential of a proposed project to cause or increase flooding, erosion, or sedimentation.

No flooding will occur from this project. The project is proposing the use of several stormwater features to collect and treat runoff.

15. The extent to which a project that is located in surface waters reflects or redirects current or wave energy which might cause damage or hazards.

N/A

16. The cumulative impact that would result if all parties owning or abutting a portion of the affected wetland or wetland complex were also permitted alterations to the wetland proportional to the extent of their property rights. For example, an applicant who owns only a portion of a wetland shall document the applicant's percentage of ownership of that wetland and the percentage of that ownership that would be impacted.

The proposed project is for the redevelopment of the existing storage facility, through new buildings and site work for access of vehicles. Total impacts are 4,958 square feet from five impacts. Impact Area A 2,133 sf, Impact Area B 356 sf, Impact Area C 619 sf, Impact Area D 389 sf, Impact Area E 1,461 sf. As this project is for a NH DOT Salt shed, it is unlikely, abutters would be proposing such projects. Additionally the project abutts Town land.

17. The impact of the proposed project on the values and functions of the total wetland or wetland complex.

The proposed plan is to impact non-prime wetlands at the upper limits of the system, as well as small isolated areas. The overall functions and values of the wetlands will not be impacted.

18. The impact upon the value of the sites included in the latest published edition of the National Register of Natural Landmarks, or sites eligible for such publication.

No such areas exist on the site.

19. The impact upon the value of areas named in acts of congress or presidential proclamations as national rivers, national wilderness areas, national lakeshores, and such areas as may be established under federal, state, or municipal laws for similar and related purposes such as estuarine and marine sanctuaries.

No such areas exist on site.

20. The degree to which a project redirects water from one watershed to another.

No water will be redirected as part of this project.

Additional comments

shoreland@des.nh.gov or (603) 271-2147
NHDES Wetlands Bureau, 29 Hazen Drive, PO Box 95, Concord, NH 03302-0095
www.des.nh.gov

**U.S. Army Corps of Engineers
Programmatic General Permit (PGP)
Appendix B**

**Corps Secondary Impacts Checklist
(for inland wetland/waterway fill projects in New Hampshire)**

1. Attach any explanations to this checklist. Lack of information could delay a Corps permit determination.
2. All references to “work” include all work associated with the project construction and operation. Work includes filling, clearing, flooding, draining, excavation, dozing, stumping, etc.
3. See PGP, GC 5 regarding single and complete projects.
4. Contact the Corps at (978) 318-8832 with any questions.

1. Impaired Waters	Yes	No
1.1 Will any work occur upstream within 1 mile upstream in the watershed of an impaired water? See www.des.nh.gov/wmb/Section401/ to determine if there is an impaired water in the vicinity of your work area.*		X
2.		
2.1 Are there are streams, brooks, rivers, ponds, or lakes within 200' of any proposed work?	X	
2.2 Are there proposed impacts to SAS, shellfish beds, special wetlands and vernal pools (see PGP, GC 26)? Applicants may obtain information from the NH Department of Resources and Economic Development Natural Heritage Bureau (NHB) website, www.dred.state.nh.us/divisions/forestandlands/bureaus/naturalheritage , specifically the book Natural Community Systems of New Hampshire .		X
2.3 If wetland crossings are proposed, are they adequately designed to maintain hydrology, sediment transport & wildlife passage.	N/A	
2.4 Would the project remove part or all of a riparian buffer? (Riparian buffers are lands adjacent to streams where vegetation is strongly influenced by the presence of water. They are often thin lines of vegetation containing native grasses, flowers, shrubs and/or trees that line the stream banks. They are also called vegetated buffer zones.)		X
2.5 The overall project site is more than 40 acres.		X
2.6 What is the size of the existing impervious surface area?	76,710 sf	
2.7 What is the size of the proposed impervious surface area?	63,250 sf	
2.8 What is the % of the impervious area (new and existing) to the overall project site?	.65%	
3. Wildlife	Yes	No
3.1 Has the NHB determined that there are known occurrences of rare species, exemplary natural communities, Federal and State threatened and endangered species and habitat, in the vicinity of the proposed project? (All projects require a NHB determination.)		X
3.2 Would work occur in an area identified by NH Fish and Game Department as “Highest Ranked Habitat by Ecological Condition in NH” (magenta areas on maps) or “Highest Ranked Habitat by Ecological Condition in biological region” (green areas on maps)? www.wildlife.state.nh.us/Wildlife/Wildlife_Plan/highest_ranking_habitat.htm . The map is currently available as a PDF for download that can be zoomed in on.*		X
3.3 Would work occur in an area identified as a “Conservation Focus Area” (purple areas). www.wildlife.state.nh.us/Wildlife/Wildlife_Plan/conservation_focus.htm ? The map is currently available as a PDF for download that can be zoomed in on.*		X
3.4 Would the project impact more than 20 acres of an undeveloped land block (upland, wetland/waterway) on the entire project site and/or on an adjoining property(s)?		X

3.5 Does the project propose more than a 10-lot residential subdivision, or a commercial or industrial development?		X
3.6 If stream crossings are proposed, will they impede hydrology, sediment transport & wildlife passage. (Note: Stream crossings should be designed in accordance with the PGP, GC 21.)		X
4. <u>Flooding/Floodplain Values</u>	Yes	No
4.1 Is the proposed project within the 100-year floodplain of an adjacent river or stream?		X
4.2 If 4.1 is yes, will compensatory flood storage be provided if the project results in a loss of flood storage?		N/A

*Although this checklist utilizes state information, its submittal to the Corps is a Federal requirement.

NHDES WETLANDS BUREAU
MINOR IMPACT DREDGE & FILL APPLICATION

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3.0	Project Overview
	USGS Quad Sheet Locus Map
	Existing Conditions
	Wetland Impact Plan Detail
	Photolog of Impact Areas
4.0	Proposed Wetland Impact
4.1	Wt 302.04 Requirements for Application Evaluation: Impact of Proposal

APPENDICES

Appendix I	New Hampshire Natural Heritage Bureau Inventory/USFW IPAC
Appendix II	NH Department of Historic Resources Inquiry

2.0 GENERAL INFORMATION

PREPARED BY (AGENT CONTACT): Luke Hurley

2.1 PROJECT NAME, PLANS, AND MAPS

PROJECT NAME: Site redevelopment

SITE PLANS/MAPS:	Cover Sheet	06/16
	Existing Conditions Plan	06/16
	Grading and Drainage Plan	06/16
	8½"x11" USGS Quad Sheet Locus Map	
	11x17" Overview Plan	
	11x17" Wetland Impact Plan Detail	
	11x17" Project Site Tax Map	
	8½"x11" Plan Set Reproductions requested by the U.S. Army Corps of Engineers (NH DES Wetland Bureau application copy)	

2.2 TECHNICAL STANDARDS

- 2.2.1 Gove Environmental Services, Inc. delineated wetlands during the summer of 2015, utilizing the standards of the Corps of Engineers *Wetlands Delineation Manual*¹ and the NH DES Wetlands Bureau *Code of Administrative Rules*².
- 2.2.2 NH DOT, located the wetland flags.
- 2.2.3 Wetlands were classified by GES utilizing the criteria of *Classification of Wetlands and Deepwater Habitats of the United States*³.
- 2.2.4 Dominant hydric soil conditions within the wetlands were identified by GES utilizing the criteria of *Field Indicators for Identifying Hydric Soils in New England*⁴.
- 2.2.5 Dominance of wetland vegetation was assessed by GES utilizing the *National List of Plant Species That Occur in Wetlands: Northeast (Region 1)*⁵.

¹ Environmental Laboratory. 2009. "Corps of Engineers Wetlands Delineation Manual: Northcentral and Northeast Region." Technical Report ERDC/EL TR-09-19.

² NH Code Admin. R. [Wt] Ch. 100-800.

³ Cowardin, L. M., 1979. *Classification of Wetlands and Deepwater Habitats in the United States*. Washington, D.C.: U.S. Department of the Interior, Fish and Wildlife Service.

⁴ National Technical Committee for Hydric Soils. 2010. "Field Indicators for Identifying Hydric Soils in New England."

⁵ Lichvar, R.W. & Kartesz, J.T. 2009. *North American Digital Flora: National Wetland Plant List*. 2.2.1.

2.3 SITE DESCRIPTION/WETLANDS OVERVIEW

The site is located on the grounds of the existing NH DOT facility, with an active use of maintenance and fueling areas as well as buildings and access to maintenance areas. An area of the site also is located within the parking area for the Salem Town Forest. NH DOT leases this property to the Town.

The wetland is classified as PSS/FO1E and is a mix of forested and scrub shrub wetland. Dominant vegetation is Red maple, pine and oak in the tree layer, highbush blueberry, alder, dogwood and winterberry in the shrub layer and cinnamon, sensitive and royal fern, swamp dewberry and *Sphagnum spp.*, in the herbaceous layer. Soils are poorly drained in the upper reaches with very poorly drained in the lower areas of the wetland.

The wetlands to be impacted are adjacent to the Town of Salem's Prime Wetland 12, associated with Hitty Titty Brook. The proposed impacts to the adjacent non-prime wetlands would not result in a total loss of functions and values for Prime Wetland 12. The indirect impacts to the prime wetland would be minimal at best. The outer edges of the prime wetland nearest the project limits are the lowest in functions and values as they are closest to the road and urbanized areas, as well as closest to the existing parking area to the trails that lead into this recreational area. Consideration should be taken as to the extent of the prime wetland, as the current rules are that no prime wetland line shall continue past an area that is narrower than 50 feet wide.

3.0 PROJECT OVERVIEW

The proposed project is for the redevelopment of the existing maintenance facility, through new buildings and site work for access of vehicles. Total impacts are 4,958 square feet from five impacts. Impact Area A 2,133 sf, Impact Area B 356 sf, Impact Area C 619 sf. Impact Area D 389 sf, Impact Area E 1,461 sf. As part of the redevelopment, there will be an increase in the vegetated buffer to the rear of the site, adjacent to the prime wetland. This will be a non-mowed area with a native seed mix. Also as part of the project, is the removal of impervious area including gravel and building from the buffer on the southern portion of the site. Although additional impervious areas are proposed on the north side, these areas will not drain directly to the prime wetland, but through grading, into onsite treatment. Also proposed is a parking area for use of the town forest.

Env-Wt 703.01.

a) The department shall review an application indicating that a project will be in or adjacent to a prime wetland in accordance with (b) below.

(b) Prior to approving an application for any project in or contiguous to a prime wetlands, the applicant shall show, and the department shall find, as required under RSA 482-A: 11, IV, based on clear and convincing evidence, that:

(1) There will be no significant net loss of values set forth in RSA 482-A:1;

This prime wetland does not have a regulated 100' buffer. No loss in the functions and values of the prime wetland, or its non-regulated buffer, as set forth in the above will occur from this project. The area where the prime wetland buffer is located is currently open and has remnants of stockpile material, which are to be removed from the non-

regulated buffer as part of the project. This portion of the non-regulated buffer is previously disturbed and 6,245 sf will be grassed and planted with the removal of impervious area and improved storm water treatment. As specified in RSA 482-A:1 no Tidal wetlands are adjacent to the project; any past unregulated activity is to be removed and disposed of site; no finfish, crustacea, or wildlife of significance exist on the site; no habitats or reproduction areas are within the proposed buffer disturbance area; the area of the prime wetland buffer is already disturbed and will be restored, with the exception of the slight grading; recreation is not allowed on this parcel and aesthetic aspect is compromised by the open nature of the site with large stockpiles outside of the non-regulated buffer and that small area within it; This proposal will not affect groundwater levels; no stream channels exist in this area; will not affect the wetland's ability to absorb flood waters and silt as there is apportion of the project to be adequate storm water treatment.

- (2) The project is consistent with the purpose specified in RSA 482-A:1;
As stated above, the project is consistent with the purpose as specified in RSA 482-A:1
- (3) The project could not be relocated to avoid impacts on prime wetlands without either reducing the public value of the project, or negatively affecting the public health or safety;
As proposed the project has been designed closer to further reduce/avoid impacts to the overall wetlands and to the prime wetland. In order to maximize the efficiency of the lot layout, this is the least impacting alternative. Also, the non-regulated prime wetland buffer to be impacted is the least impacting extent practicable, within an already disturbed area. As noted some areas will be replanted with grass and improved stormwater treatment is proposed.
- (4) The project's impacts on prime wetlands are the minimum practical without either reducing the public value of the project, or negatively affecting the public health or safety;
As proposed the project has no direct impact to the prime wetland as specified, but to an area of the buffer, which is previously disturbed. This prime wetland does not have a regulated 100' buffer
- (5) The project incorporates appropriate and practicable compensatory mitigation for each of the wetland functions and values of RSA 482-A:1, and each of the functions and values ranked by the municipality, which are impacted by the project. The mitigation proposed shall be appropriate in terms of matching the proposed benefit given the relative harm of the project. The mitigation shall be practicable given the technology available at the time of the application to the department.
As specified above, with no direct prime wetland impact, but within a previously disturbed area of the buffer, this area is to be partially restored, by removing the existing material. No loss of functions or values are proposed and the presence of native vegetation will aid in buffer protection.

Constriction Sequence:

1. Erosion control will be placed around all wetland areas not to be impacted.
2. Demolition of structure will commence.
3. Ground work will commence

4. Construction of new structures and additional site work including stormwater areas will commence
5. Stabilizing of all areas will commence
6. Once all areas are stabilized, erosion control measures will be removed as needed.

Wetland Function-Value Evaluation Form

Total area of wetland: unknown Human made? NO Is wetland part of a wildlife corridor? No or a 'habitat island'? I
 Adjacent land use Urbanized Distance to nearest roadway or other development 50 feet
 Dominant wetland systems present PSS/FOIE Contiguous undeveloped buffer zone present No
 Is the wetland a separate hydraulic system? No If not, where does the wetland lie in the drainage basin? Lower
 How many tributaries contribute to the wetland? None Wildlife & vegetation diversity/abundance (see attached list) Yes
 Wetland ID: Latitude Prepared by: LDH Date 11/20/15
 Wetland Impact: Type PSS/FPIE Area
 Evaluation based on: Office Field X

Function/Value	Occurrence Y/N	Rationale (Reference #)*	Principal Function/Value(s)	Comments
Groundwater Recharge/Discharge	N	1,2,	N	
Floodflow Alteration	Y	1,2,3,4,5,6,7,8,9,10,11,14,18	Y	
Fish and Shellfish Habitat	N			
Sediment/Toxicant Retention	Y	1,2,3,4,5,6,7,8,9,10,12,13,15, 16	Y	
Nutrient Removal	Y	1,2,3,4,5,6,7,8,9,10,11,12,	Y	
Production Export	Y	1,2,4,5,7,8,9,10,11,12,13,14	Y	
Sediment/Shoreline Stabilization	N	4,8,	N	
Wildlife Habitat	Y	1,2,3,5,6,7,8,9,11,12,13,14,15, 16,17,18,19,20,21,22,	Y	
Recreation	N			
Educational/Scientific Value	Y	2,3,4,5,6,7,8,9,10,11,1,2,13,14	Y	
Uniqueness/Heritage	Y	2,3,4,5,6,7,8,9,10,12,13,15,16, 17,19,	Y	
Visual Quality/Aesthetics	Y	1,2,3,4,5,6,7,8,	Y	
Endangered Species Habitat	N		Not known.	
Other				

Notes:

*Refer to backup list of numbered considerations.

NOTES ON CONFERENCE:**Finalization of February 17th 2016 Meeting Minutes**

Gino Infascelli indicated he would like to request some more time to review and submit comments. Matt Urban agreed to keep the minutes open for another week and that he would finalize them thereafter.

Salem, 28980 (Patrol Shed 514) Non-Federal

Gary Clifford presented an overview of this projects history, explaining that they have investigated several locations to rebuild the Salem 514 Patrol Shed. G. Clifford explained that the existing shed is servicing several roads that are State Maintained out of this undersized and outdated facility. G. Clifford shared some photos of the existing facility to give an impression of the tight quarters that these maintainers are dealing with. He also shared some photos of the lack of storage for their salt piles. G. Clifford explained that the portion of "Town Forest Entrance" is actually owned by DOT but leased to the Town. G. Clifford explained that prior to designing the new shed at this location they were well into concept plans at another location in Salem. However, he explained the Town and Con. Comm didn't like the location that had been selected for several reasons. It was the Town and Con Comm who suggested the DOT look more closely at rebuilding at the sheds current location. G. Clifford explained he knew this would come with some challenges because the existing shed would need to remain operational while the new shed is being constructed. Furthermore he explained that it was surrounded by Prime Wetlands. G. Clifford shared some plans showing the Prime wetland lines and also shared some of the draft concepts for how this site might be laid out, showing that the Department has been trying to minimize its impacts to wetlands and also provide treatment.

Matt Urban explained while viewing the draft plan that showed the water quality treatment area that we were still in the process of reducing slopes to avoid the prime wetlands as it was currently shown.

M. Urban also explained that the new design would include a salt shed that would completely cover the existing salt pile that currently is only covered with a tarp each year.

M. Urban also explained that we have hired Gove Environmental Consultants to refine the preliminary wetland delineation and to provide a wetlands function and values assessment.

Carrol Henderson indicated that there wasn't an NHB on the agenda form. G. Clifford was able to provide a record (NHB15-3164) that indicated no occurrences in this area.

Gino Infascelli indicated that DOT should review the Town's Prime Wetlands report to compare the functions and values assessments.

G. Infascelli also expressed a concern for a lack of buffer around the perimeter of the property. Explaining we should try to keep as much vegetated buffer between the property and the wetland as possible in the design.

Ridgely Mauck noted that infiltration basins are to have a three foot separation to the seasonal high water table.

M. Urban indicated we would be able to provide additional landscaping/grass seed to maintain a vegetated buffer.

G. Infascelli also indicated that if we do have direct prime wetland impacts that they would need to be mitigated onsite.

This project has not been previously discussed at a Monthly Natural Resource Agency Coordination Meeting.

Sutton, 40501 (112/126)

Tony Weatherbee provided an overview of the project. The existing structure is a concrete rigid frame bridge with a 22'-0" span and is 23'-5" wide. There are spalls at the curbs and there are areas of leaking in the soffit. There are major spalls in the northwest wingwall, minor spalls in the southwest wingwall, scaling at the north abutment and erosion at all four wingwalls. The concrete deck will be replaced and riprap will be added in front of the abutments. Temporary scaffolding will be placed to facilitate the repair. The bridge will not be widened.

T. Weatherbee explained that there is a dam owned by DES about 30 feet upstream.

Carol Henderson asked if the riprap being installed would be exposed and T. Weatherbee said yes.

Gino Infascelli said that no mitigation is required. He mentioned that flows should be coordinated with the Dam Safety Bureau. C. Henderson asked for riprap to be minimized as much as possible.

This project has not been previously discussed at a Monthly Natural Resource Agency Coordination Meeting.

Woodstock, 40571 (171/153)

Tony Weatherbee provided an overview of the project. The existing structure is a concrete arch bridge with a 68'-10" span and is 32'-3" wide. There are medium to heavy spalls in the abutments. There are cracks, spalls and minor settlement in the wingwalls. There will be toewalls installed on the abutments and the wingwalls will be faced. Existing riprap will be temporarily moved so the wingwalls may be accessed. Riprap will be added in front of the abutments. Temporary scaffolding will be placed in the river and on the bank to facilitate the repair.

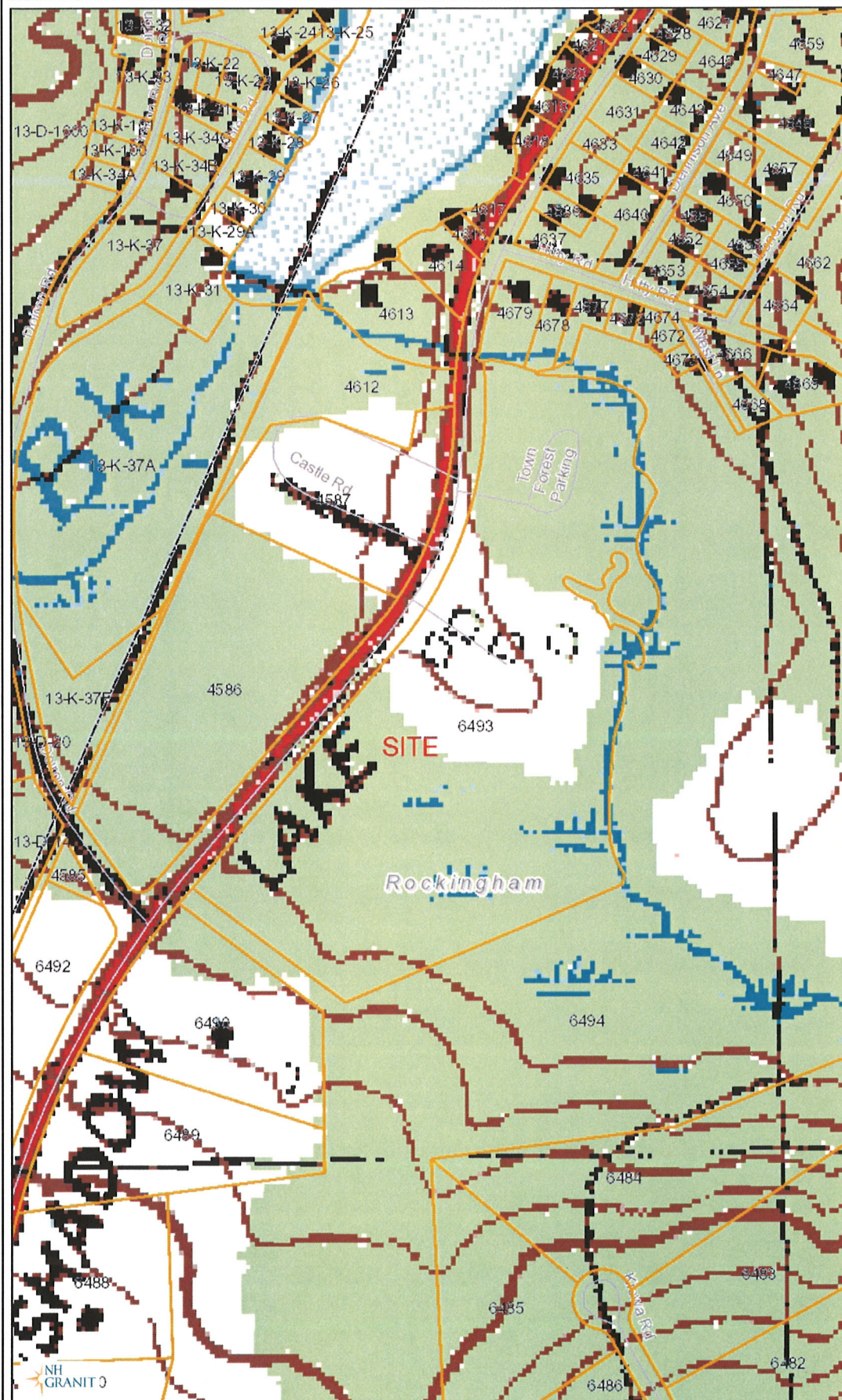
Gino Infascelli mentioned that the location map looked incorrect. T. Weatherbee agreed and the correct bridge location was identified. Matt Urban noted that rebar was used to hold in riprap on the bank. T. Weatherbee said that we would rather chink in stones but because the riprap was placed on bedrock, rebar pins had to be used to hold the stone. Carol Henderson asked if A-Jacks could be used. T. Weatherbee said no because the riprap was going to be added in smaller areas and A-Jacks are designed to create a mat over a larger area.

Amy Lamb said that there were no NHB hits at this location.

G. Infascelli said that no mitigation is required.

1985 USGS QUAD SHEET LOCUS MAP
Scale 1:24,000

Map by NH GRANIT



Legend

- Parcels - polygons
- Additional lines
- ◆ Attributes for additional lines
- State
- County
- City/Town
- Interstates
- Turnpikes
- US Routes
- State Routes
- Local Roads

Map Scale

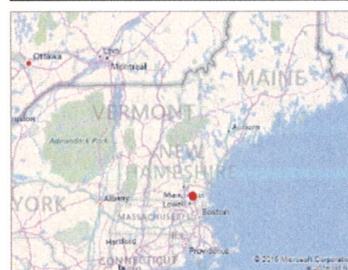
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Map Generated: 6/28/2016



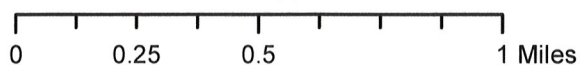
Notes



Patrol Shed 514

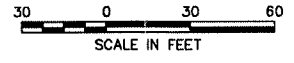
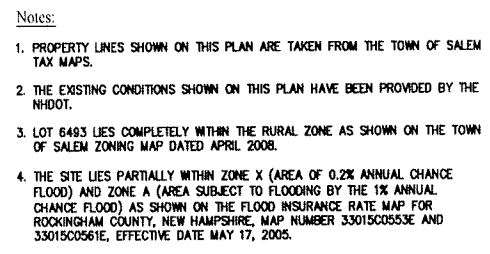



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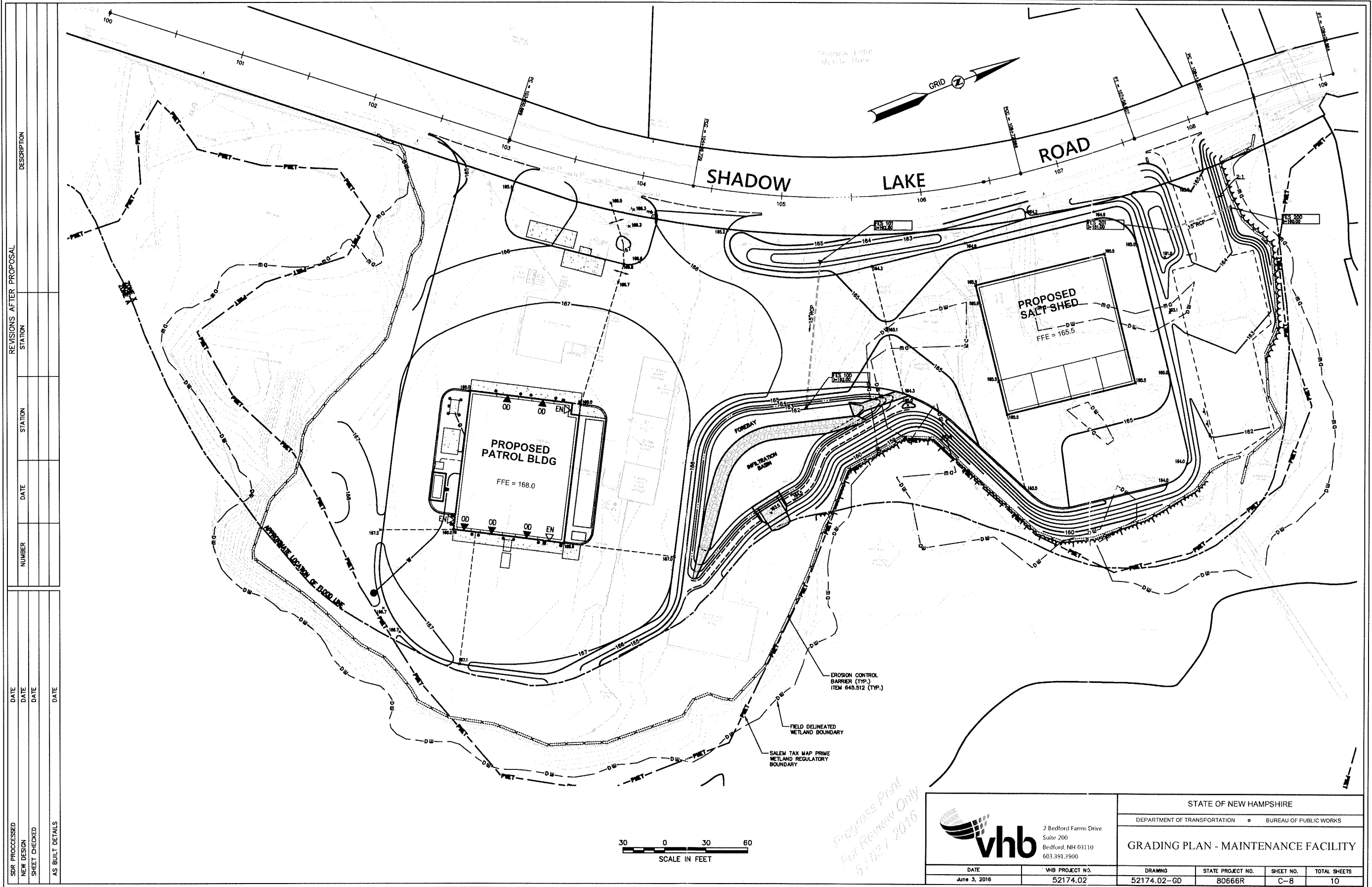
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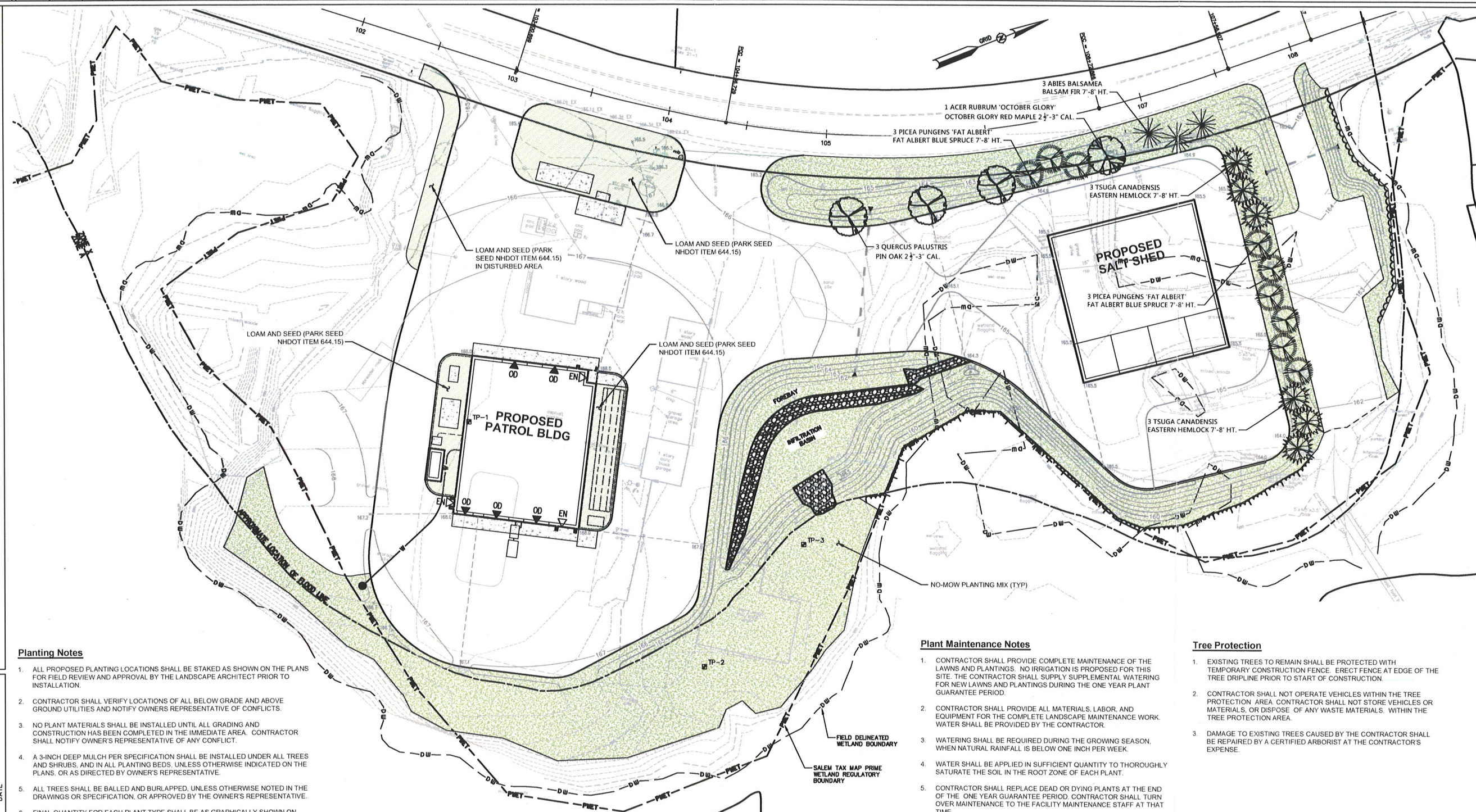
EXISTING CONDITIONS PLAN



	2 Bedford Farms Drive Suite 200 Bedford, NH 03110 603.391.3900		STATE OF NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION BUREAU OF PUBLIC WORKS			
			EXISTING CONDITIONS PLAN			
	DATE June 3, 2016	VHB PROJECT NO. 52174.02	DRAWING 52174.02-EC	STATE PROJECT NO. 80666R	SHEET NO. C-5	TOTAL SHEETS 10

WETLAND IMPACT PLAN DETAIL





1. ALL PROPOSED PLANTING LOCATIONS SHALL BE STAKED AS SHOWN ON THE PLANS FOR FIELD REVIEW AND APPROVAL BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
2. CONTRACTOR SHALL VERIFY LOCATIONS OF ALL BELOW GRADE AND ABOVE GROUND UTILITIES AND NOTIFY OWNERS REPRESENTATIVE OF CONFLICTS.
3. NO PLANT MATERIALS SHALL BE INSTALLED UNTIL ALL GRADING AND CONSTRUCTION HAS BEEN COMPLETED IN THE IMMEDIATE AREA. CONTRACTOR SHALL NOTIFY OWNER'S REPRESENTATIVE OF ANY CONFLICT.
4. A 3-INCH DEEP MULCH PER SPECIFICATION SHALL BE INSTALLED UNDER ALL TREES AND SHRUBS, AND IN ALL PLANTING BEDS, UNLESS OTHERWISE INDICATED ON THE PLANS, OR AS DIRECTED BY OWNER'S REPRESENTATIVE.
5. ALL TREES SHALL BE BALLED AND BURLAPPED, UNLESS OTHERWISE NOTED IN THE DRAWINGS OR SPECIFICATION, OR APPROVED BY THE OWNER'S REPRESENTATIVE.
6. FINAL QUANTITY FOR EACH PLANT TYPE SHALL BE AS GRAPHICALLY SHOWN ON THE PLAN. THIS NUMBER SHALL TAKE PRECEDENCE IN CASE OF ANY DISCREPANCY BETWEEN QUANTITIES SHOWN ON THE PLANT LIST AND ON THE PLAN. THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES BETWEEN THE NUMBER OF PLANTS SHOWN ON THE PLANT LIST AND PLANT LABELS PRIOR TO BIDDING.
7. ANY PROPOSED PLANT SUBSTITUTIONS MUST BE REVIEWED BY LANDSCAPE ARCHITECT AND APPROVED IN WRITING BY THE OWNER'S REPRESENTATIVE.
8. ALL PLANT MATERIALS INSTALLED SHALL MEET THE SPECIFICATIONS OF THE "AMERICAN STANDARDS FOR NURSERY STOCK" BY THE AMERICAN ASSOCIATION OF NURSERYMEN AND CONTRACT DOCUMENTS.
9. ALL PLANT MATERIALS SHALL BE GUARANTEED FOR ONE YEAR FOLLOWING DATE OF FINAL ACCEPTANCE.
10. AREAS DESIGNATED "LOAM & SEED" SHALL RECEIVE MINIMUM 6" OF LOAM AND SPECIFIED SEED MIX. LAWNS OVER 2:1 SLOPE SHALL BE PROTECTED WITH EROSION CONTROL FABRIC.
11. ALL DISTURBED AREAS NOT OTHERWISE NOTED ON CONTRACT DOCUMENTS SHALL BE LOAM AND SEEDED OR MULCHED AS DIRECTED BY OWNER'S REPRESENTATIVE.
12. THIS PLAN IS INTENDED FOR PLANTING PURPOSES. REFER TO SITE / CIVIL DRAWINGS FOR ALL OTHER SITE CONSTRUCTION INFORMATION.

1. CONTRACTOR SHALL PROVIDE COMPLETE MAINTENANCE OF THE LAWNS AND PLANTINGS. NO IRRIGATION IS PROPOSED FOR THIS SITE. THE CONTRACTOR SHALL SUPPLY SUPPLEMENTAL WATERING FOR NEW LAWNS AND PLANTINGS DURING THE ONE YEAR PLANT GUARANTEE PERIOD.
2. CONTRACTOR SHALL PROVIDE ALL MATERIALS, LABOR, AND EQUIPMENT FOR THE COMPLETE LANDSCAPE MAINTENANCE WORK. WATER SHALL BE PROVIDED BY THE CONTRACTOR.
3. WATERING SHALL BE REQUIRED DURING THE GROWING SEASON, WHEN NATURAL RAINFALL IS BELOW ONE INCH PER WEEK.
4. WATER SHALL BE APPLIED IN SUFFICIENT QUANTITY TO THOROUGHLY SATURATE THE SOIL IN THE ROOT ZONE OF EACH PLANT.
5. CONTRACTOR SHALL REPLACE DEAD OR DYING PLANTS AT THE END OF THE ONE YEAR GUARANTEE PERIOD. CONTRACTOR SHALL TURN OVER MAINTENANCE TO THE FACILITY MAINTENANCE STAFF AT THAT TIME.


1. EXISTING TREES TO REMAIN SHALL BE PROTECTED WITH TEMPORARY CONSTRUCTION FENCE. ERECT FENCE AT EDGE OF THE TREE DRIPLINE PRIOR TO START OF CONSTRUCTION.
2. CONTRACTOR SHALL NOT OPERATE VEHICLES WITHIN THE TREE PROTECTION AREA. CONTRACTOR SHALL NOT STORE VEHICLES OR MATERIALS, OR DISPOSE OF ANY WASTE MATERIALS, WITHIN THE TREE PROTECTION AREA.
3. DAMAGE TO EXISTING TREES CAUSED BY THE CONTRACTOR SHALL BE REPAIRED BY A CERTIFIED ARBORIST AT THE CONTRACTOR'S EXPENSE.

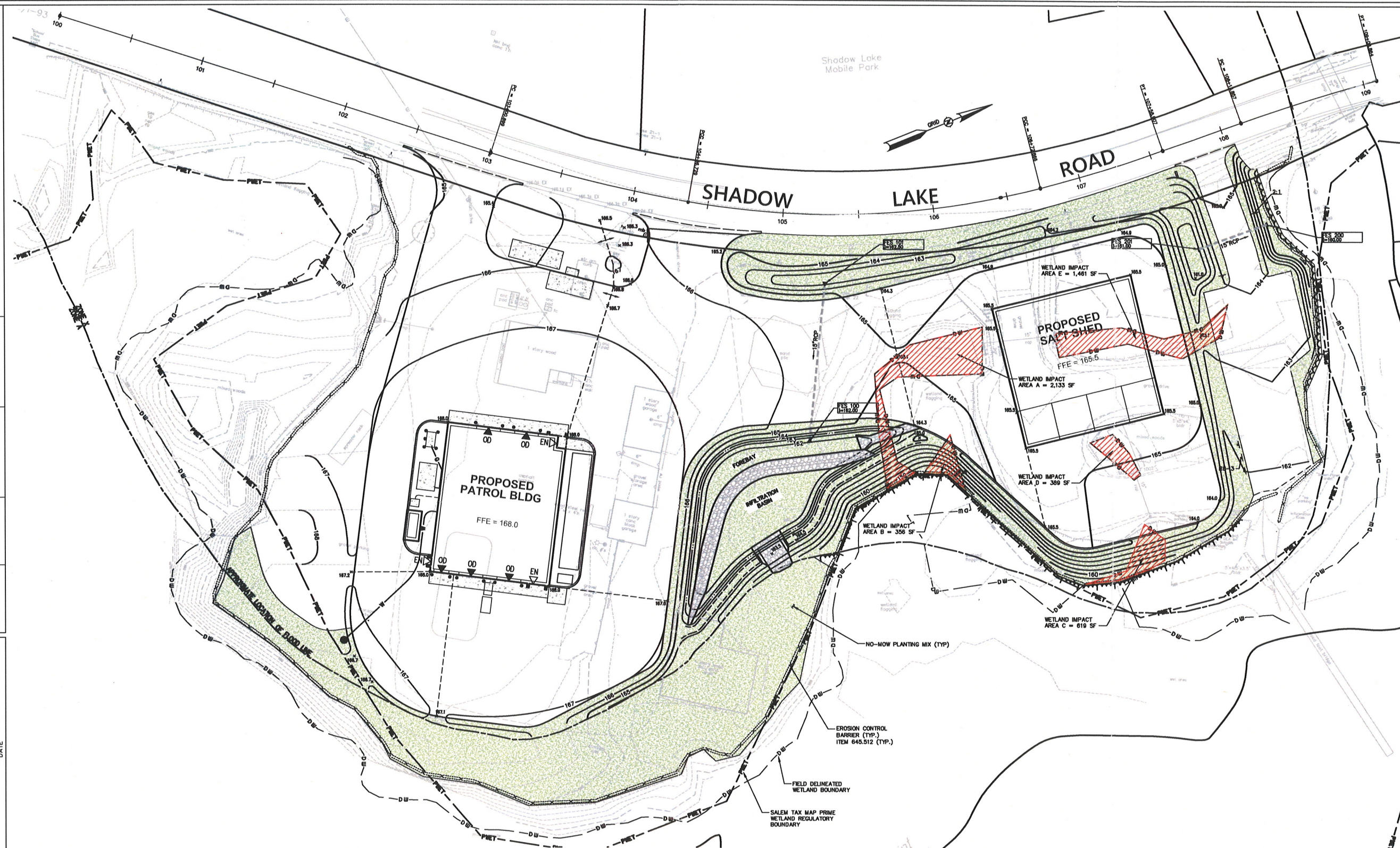


Progress Print
For Review Only
6/03/2016




2 Bedford Farms Drive
Suite 200
Bedford, NH 03110
603.391.3900

 <div>2 Bedford Farms Drive Suite 200 Bedford, NH 03110 603.391.3900</div>		STATE OF NEW HAMPSHIRE				
		DEPARTMENT OF TRANSPORTATION • BUREAU OF PUBLIC WORKS				
		PLANTING PLAN - MAINTENANCE FACILITY				
DATE	VHB PROJECT NO.	DRAWING	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS	
June 3, 2016	52174.02	52174.02-LA	80666R	C-9	10	




Progress Print
For Review Only
6/03/2016

 <div style="display: inline-block; vertical-align: middle; margin-left: 10px;"> 2 Bedford Farms Drive Suite 200 Bedford, NH 03110 603.391.3900 </div>		STATE OF NEW HAMPSHIRE			
		DEPARTMENT OF TRANSPORTATION • BUREAU OF PUBLIC WORKS			
		WETLAND IMPACT PLAN - MAINTENANCE FACILITY			
DATE	VHB PROJECT NO.	DRAWING	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
June 3, 2016	52174.02	52174.02-GRADING	80666R	C-10	10

PHOTOLOG OF IMPACT AREAS



FOR PROPOSED		DATE		REVISIONS AFTER PROPOSAL			
NEW DESIGN		DATE		NUMBER	DATE	STATION	DESCRIPTION
SHEET CHECKED		DATE					
AS BUILT DETAILS		DATE					



2 Bedford Square Drive
Suite 200
Bedford, MA 01730
617.351.3000
507/74.02

STATE OF MASSACHUSETTS
DEPARTMENT OF TRANSPORTATION
BUREAU OF PUBLIC WORKS

**WETLAND IMPACT PLAN -
MAINTENANCE FACILITY**

DATE: JUNE 20, 2018
SHEET: 10

Photo Log



1. Looking over impact area A



2. Looking over impact area A



3. Looking over impact area B



4. Looking over impact area C



5. Looking over impact area D



6. Looking over impact area E.

Appendix I
New Hampshire Natural Heritage Inventory Inquiry/USFW IPAC



New Hampshire Natural Heritage Bureau

To: Sarah Large
7 Hazen Drive
Concord, NH 03301

Date: 10/10/2016

From: NH Natural Heritage Bureau

Re: Review by NH Natural Heritage Bureau of request dated 10/10/2016
NHB File ID: NHB16-3110

Applicant: Matt Urban

Location: Tax Map(s)/Lot(s): Tax Map 13 Lot 6493
Salem

Project Description: Replace existing highway maintenance facility with patrol shed and salt building.

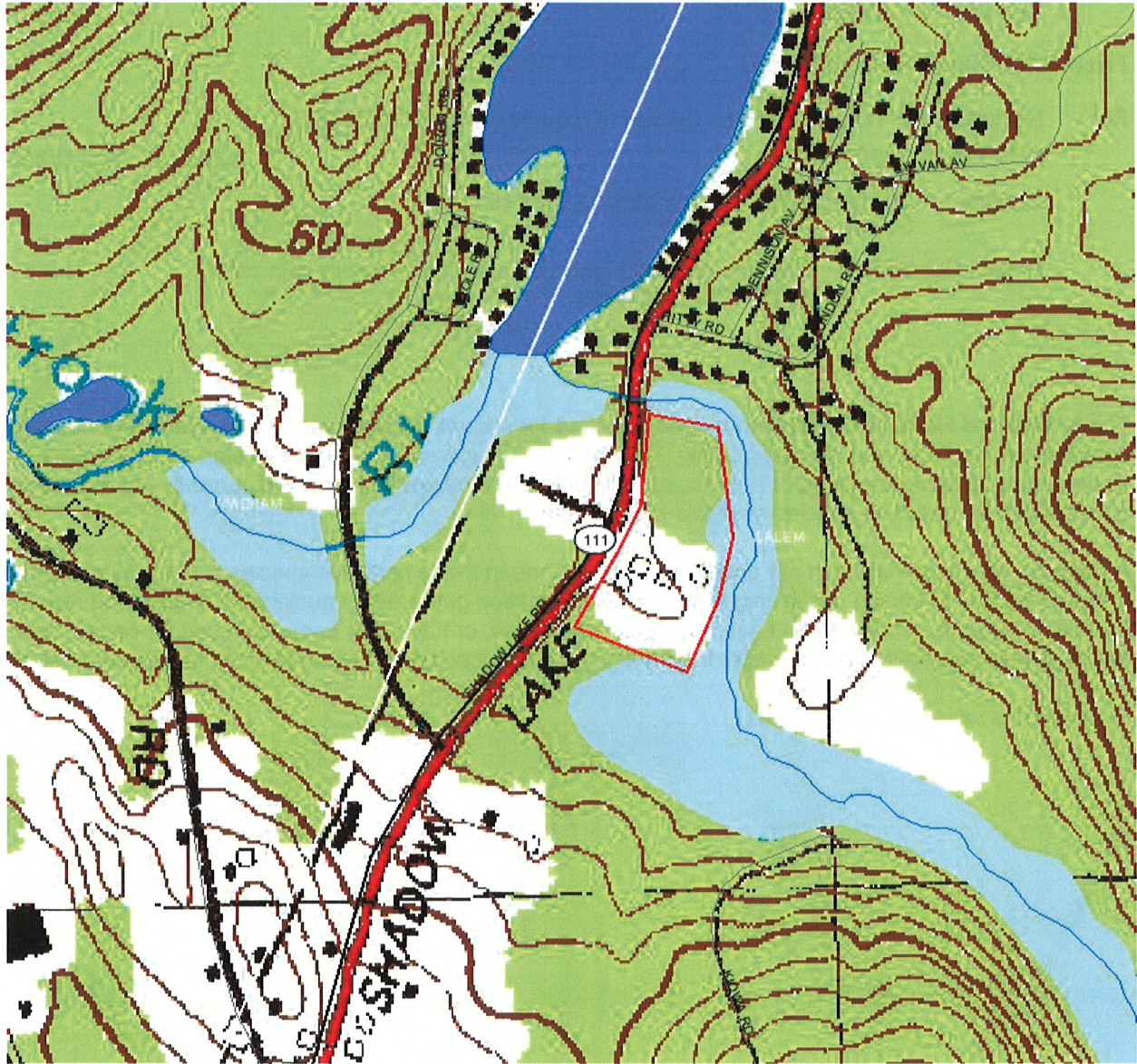
The NH Natural Heritage database has been checked for records of rare species and exemplary natural communities near the area mapped below. The species considered include those listed as Threatened or Endangered by either the state of New Hampshire or the federal government. We currently have no recorded occurrences for sensitive species near this project area.

A negative result (no record in our database) does not mean that a sensitive species is not present. Our data can only tell you of known occurrences, based on information gathered by qualified biologists and reported to our office. However, many areas have never been surveyed, or have only been surveyed for certain species. An on-site survey would provide better information on what species and communities are indeed present.

This report is valid through 10/9/2017.



MAP OF PROJECT BOUNDARIES FOR NHB FILE ID: NHB16-3110





New Hampshire Natural Heritage Bureau

To: Roger Dionne
PO Box 483
John O. Morton Building
Concord, NH 03301-0483

Date: 9/29/2015

From: NH Natural Heritage Bureau

Re: Review by NH Natural Heritage Bureau of request dated 9/29/2015

NHB File ID: NHB15-3164

Applicant: Richard Radwanski

Location: Tax Map(s)/Lot(s): 37/6493
Salem

Project Description: Replace existing highway maintenance facility with patrol
shed and salt building

The NH Natural Heritage database has been checked for records of rare species and exemplary natural communities near the area mapped below. The species considered include those listed as Threatened or Endangered by either the state of New Hampshire or the federal government. We currently have no recorded occurrences for sensitive species near this project area.

A negative result (no record in our database) does not mean that a sensitive species is not present. Our data can only tell you of known occurrences, based on information gathered by qualified biologists and reported to our office. However, many areas have never been surveyed, or have only been surveyed for certain species. An on-site survey would provide better information on what species and communities are indeed present.

This report is valid through 9/28/2016.



MAP OF PROJECT BOUNDARIES FOR NHB FILE ID: NHB15-3164





United States Department of the Interior

FISH AND WILDLIFE SERVICE
New England Ecological Services Field Office
70 COMMERCIAL STREET, SUITE 300
CONCORD, NH 03301
PHONE: (603)223-2541 FAX: (603)223-0104
URL: www.fws.gov/newengland



Consultation Code: 05E1NE00-2016-SLI-2123

August 23, 2016

Event Code: 05E1NE00-2016-E-02969

Project Name: NH DOT Patrol Shed shadow Lake Road

Subject: List of threatened and endangered species that may occur in your proposed project location, and/or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)(c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

<http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF>

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan (http://www.fws.gov/windenergy/eagle_guidance.html). Additionally, wind energy projects should follow the wind energy guidelines (<http://www.fws.gov/windenergy/>) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: <http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm>; <http://www.towerkill.com>; and <http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html>.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment



United States Department of Interior
Fish and Wildlife Service

Project name: NH DOT Patrol Shed shadow Lake Road

Official Species List

Provided by:

New England Ecological Services Field Office
70 COMMERCIAL STREET, SUITE 300
CONCORD, NH 03301
(603) 223-2541
<http://www.fws.gov/newengland>

Consultation Code: 05E1NE00-2016-SLI-2123

Event Code: 05E1NE00-2016-E-02969

Project Type: TRANSPORTATION

Project Name: NH DOT Patrol Shed shadow Lake Road

Project Description: Upgrade existing facility

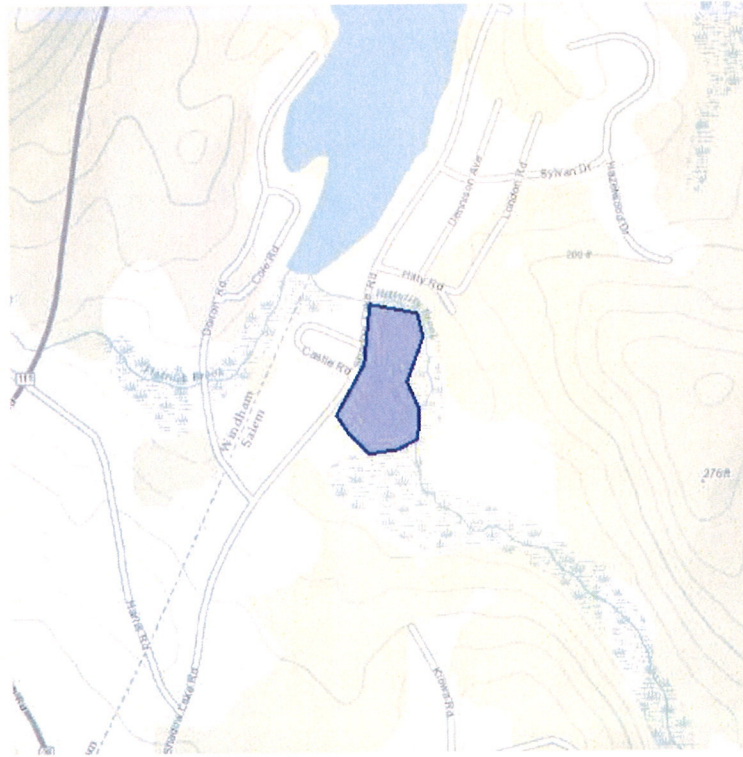
Please Note: The FWS office may have modified the Project Name and/or Project Description, so it may be different from what was submitted in your previous request. If the Consultation Code matches, the FWS considers this to be the same project. Contact the office in the 'Provided by' section of your previous Official Species list if you have any questions or concerns.



United States Department of Interior
Fish and Wildlife Service

Project name: NH DOT Patrol Shed shadow Lake Road

Project Location Map:



Project Coordinates: MULTIPOLYGON (((-71.23987913131714 42.81487453040578, -71.23891353607178 42.81473286709876, -71.23876333236694 42.81437083717312, -71.23910665512084 42.81369399293152, -71.2388652563095 42.81330441061955, -71.23891353607178 42.812843991996004, -71.23929977416992 42.81267871267967, -71.23991131782532 42.81263148993672, -71.24035120010376 42.81293843712129, -71.24058723449707 42.81320603085974, -71.24001860618591 42.81396945369119, -71.23987913131714 42.81487453040578)))

Project Counties: Rockingham, NH



United States Department of Interior
Fish and Wildlife Service

Project name: NH DOT Patrol Shed shadow Lake Road

Endangered Species Act Species List

There are a total of 1 threatened or endangered species on your species list. Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species. Critical habitats listed under the **Has Critical Habitat** column may or may not lie within your project area. See the **Critical habitats within your project area** section further below for critical habitat that lies within your project. Please contact the designated FWS office if you have questions.

Mammals	Status	Has Critical Habitat	Condition(s)
Northern long-eared Bat (<i>Myotis septentrionalis</i>)	Threatened		



United States Department of Interior
Fish and Wildlife Service

Project name: NH DOT Patrol Shed shadow Lake Road

Critical habitats that lie within your project area

There are no critical habitats within your project area.

Appendix II
State Historic Preservation Office Inquiry

Please mail the completed form and required material to:

New Hampshire Division of Historical Resources
State Historic Preservation Office
Attention: Review & Compliance
19 Pillsbury Street, Concord, NH 03301-3570

RECEIVED

APR 12 2016

DHR Use Only

R&C #

7652

Log In Date ____ / ____ / ____

Response Date ____ / ____ / ____

Sent Date ____ / ____ / ____

Request for Project Review by the New Hampshire Division of Historical Resources

☒ This is a new submittal

☐ This is additional information relating to DHR Review & Compliance (R&C) #:

GENERAL PROJECT INFORMATION

Project Title Highway Maintenance Facility

Project Location 54 Shadow Lake Road

City/Town Salem Tax Map 37 Lot # 6493

NH State Plane - Feet Geographic Coordinates: Easting 1098721 Northing 114544
(See RPR Instructions and R&C FAQs for guidance.)

Lead Federal Agency and Contact (if applicable)
(Agency providing funds, licenses, or permits)

Permit Type and Permit or Job Reference #

State Agency and Contact (if applicable)

DAS

Permit Type and Permit or Job Reference #

APPLICANT INFORMATION

Applicant Name NHDOT District 5 c/o Gary Clifford

Mailing Address 16 East Point Drive Phone Number 603-666-3336

City Bedford State NH Zip Email 03110

CONTACT PERSON TO RECEIVE RESPONSE

Name/Company NHDAS Division of Public Works, Roger E. Dionne, PE

Mailing Address PO Box 483 Phone Number 603-271-3228

City Concord State NH Zip 03301-048 Email rdionne@dot.state.nh.us

This form is updated periodically. Please download the current form at www.nh.gov/nhdhr/review. Please refer to the Request for Project Review Instructions for direction on completing this form. Submit one copy of this project review form for each project for which review is requested. Include a self-addressed stamped envelope to expedite review response. Project submissions will not be accepted via facsimile or e-mail. This form is required. Review request form must be complete for review to begin. Incomplete forms will be sent back to the applicant without comment. Please be aware that this form may only initiate consultation. For some projects, additional information will be needed to complete the Section 106 review. All items and supporting documentation submitted with a review request, including photographs and publications, will be retained by the DHR as part of its review records. Items to be kept confidential should be clearly identified. For questions regarding the DHR review process and the DHR's role in it, please visit our website at: www.nh.gov/nhdhr/review or contact the R&C Specialist at christina.st.louis@der.nh.gov or 603.271.3558.

PROJECTS CANNOT BE PROCESSED WITHOUT THIS INFORMATION

Project Boundaries and Description

- ☒ Attach the relevant portion of a 7.5' USGS Map (photocopied or computer-generated) **indicating the defined project boundary.** (See RPR Instructions and R&C FAQs for guidance.)
- ☒ Attach a detailed narrative description of the proposed project.
- ☒ Attach a site plan. The site plan should include the project boundaries and areas of proposed excavation.
- ☒ Attach photos of the project area (overview of project location and area adjacent to project location, and specific areas of proposed impacts and disturbances.) (Informative photo captions are requested.)
- ☐ A DHR file review must be conducted to identify properties within or adjacent to the project area. Provide file review results in **Table 1.** (Blank table forms are available on the DHR website.)
File review conducted on / / .

Architecture

Are there any buildings, structures (bridges, walls, culverts, etc.) objects, districts or landscapes within the project area? ☐ Yes ☒ No

If no, skip to Archaeology section. If yes, submit all of the following information:

Approximate age(s): 70

- ☒ Photographs of **each** resource or streetscape located within the project area, with captions, along with a mapped photo key. (Digital photographs are accepted. All photographs must be clear, crisp and focused.)
- ☒ If the project involves rehabilitation, demolition, additions, or alterations to existing buildings or structures, provide additional photographs showing detailed project work locations. (i.e. Detail photo of windows if window replacement is proposed.)

Archaeology

Does the proposed undertaking involve ground-disturbing activity? ☒ Yes ☐ No

If yes, submit all of the following information:

- ☒ Description of current and previous land use and disturbances.
- ☒ Available information concerning known or suspected archaeological resources within the project area (such as cellar holes, wells, foundations, dams, etc.)

Please note that for many projects an architectural and/or archaeological survey or other additional information may be needed to complete the Section 106 process.

DHR Comment/Finding Recommendation *This Space for Division of Historical Resources Use Only*

☐ Insufficient information to initiate review. ☒ Additional information is needed in order to complete review.

☐ No Potential to cause Effects ☐ No Historic Properties Affected ☐ No Adverse Effect ☐ Adverse Effect

Comments: A NH Inventory Form is requested to
continue review. Form must be prepared by Architectural
Historian grabbed under 36 CFR 61. Please continue to
coordinate with DOT, cultural resources staff on this project

If plans change or resources are discovered in the course of this project, you must contact the Division of Historical Resources as required by federal law and regulation.

Authorized Signature: Nedra Miller 271-6628 Date: 4/13/16